

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P203696

Luminaire Tested: **LD6B50D010TE EU6B30509050 6LBNH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203696  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B50D010TE EU6B30509050 6LBNH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2929.9 lumens  
Efficiency: N/A  
Efficacy: 49.9 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

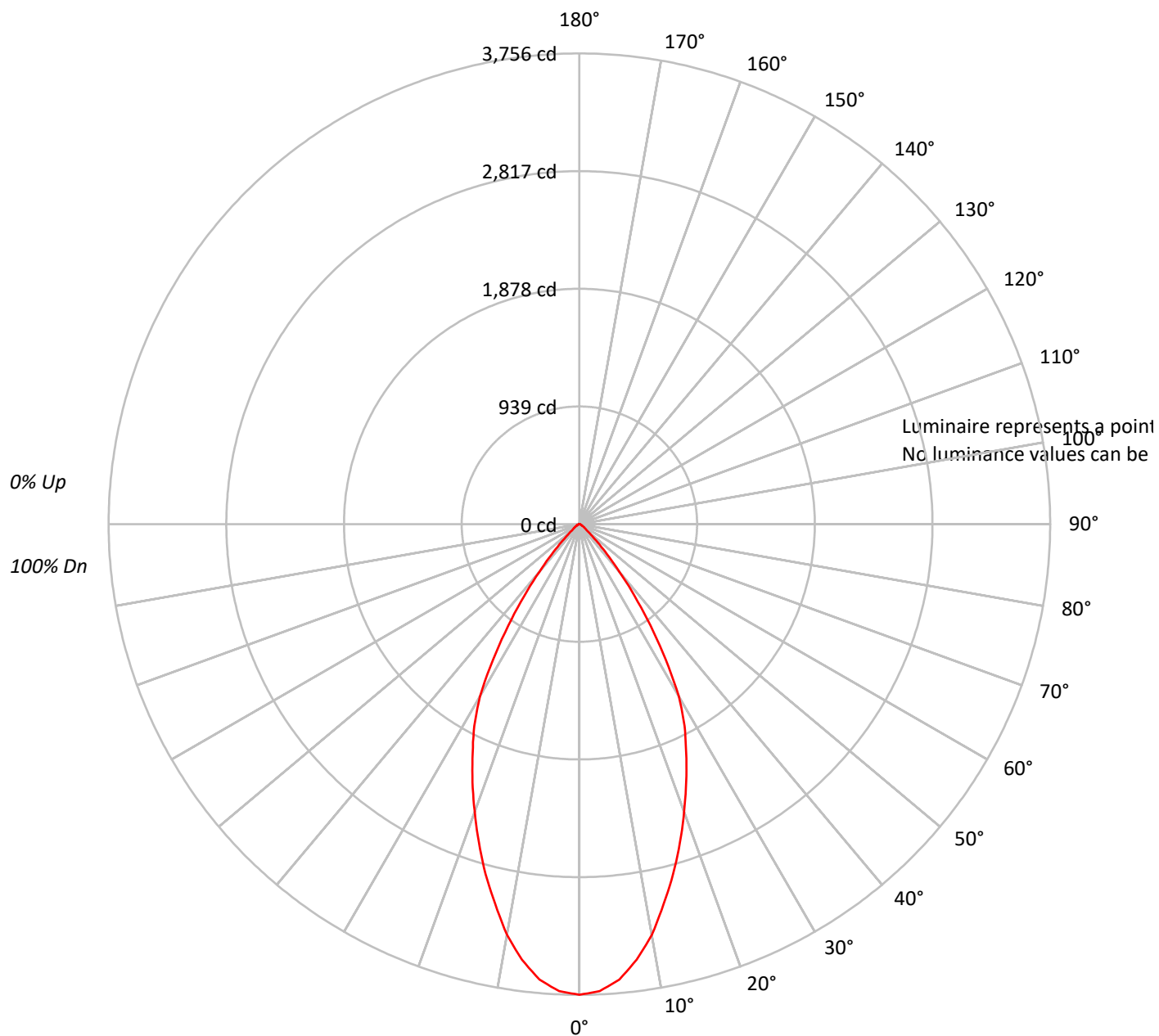
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|
| RF  | 20  |     |     |     |  | 20  |     |     |     |  | 20  |     |     |  |     | 20  |     |  |     |     | 20  |
| RC  | 80  |     |     |     |  | 70  |     |     |     |  | 50  |     |     |  |     | 30  |     |  |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  |  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 113 | 111 | 108 | 106 |  | 111 | 109 | 106 | 104 |  | 104 | 103 | 101 |  | 101 | 99  | 98  |  | 97  | 96  | 95  |
| 2   | 108 | 103 | 99  | 96  |  | 106 | 101 | 98  | 94  |  | 98  | 95  | 92  |  | 95  | 93  | 90  |  | 92  | 90  | 89  |
| 3   | 102 | 96  | 91  | 87  |  | 100 | 95  | 90  | 86  |  | 92  | 88  | 85  |  | 90  | 86  | 84  |  | 87  | 85  | 82  |
| 4   | 97  | 90  | 84  | 80  |  | 95  | 89  | 83  | 79  |  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 83  | 79  | 77  |
| 5   | 92  | 84  | 78  | 74  |  | 91  | 83  | 78  | 73  |  | 81  | 76  | 73  |  | 80  | 75  | 72  |  | 78  | 74  | 72  |
| 6   | 88  | 79  | 73  | 69  |  | 86  | 78  | 72  | 68  |  | 77  | 72  | 68  |  | 75  | 71  | 67  |  | 74  | 70  | 67  |
| 7   | 83  | 74  | 68  | 64  |  | 82  | 73  | 68  | 64  |  | 72  | 67  | 63  |  | 71  | 66  | 63  |  | 70  | 66  | 63  |
| 8   | 79  | 70  | 64  | 60  |  | 78  | 69  | 64  | 60  |  | 68  | 63  | 59  |  | 67  | 63  | 59  |  | 66  | 62  | 59  |
| 9   | 76  | 66  | 60  | 56  |  | 75  | 66  | 60  | 56  |  | 65  | 59  | 56  |  | 64  | 59  | 56  |  | 63  | 59  | 55  |
| 10  | 72  | 62  | 57  | 53  |  | 71  | 62  | 57  | 53  |  | 61  | 56  | 53  |  | 60  | 56  | 52  |  | 60  | 55  | 52  |

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 337.8  | 11.5      |
| 10°-20°   | 805.5  | 27.5      |
| 20°-30°   | 922.8  | 31.5      |
| 30°-40°   | 620.0  | 21.2      |
| 40°-50°   | 177.1  | 6.0       |
| 50°-60°   | 43.4   | 1.5       |
| 60°-70°   | 16.5   | 0.6       |
| 70°-80°   | 6.3    | 0.2       |
| 80°-90°   | 0.7    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2066.0 | 70.5      |
| 0°-40°    | 2686.0 | 91.7      |
| 0°-60°    | 2906.4 | 99.2      |
| 0°-90°    | 2929.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2929.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3756 |      |
| 5°  | 3649 | 338  |
| 15° | 2890 | 805  |
| 25° | 2014 | 923  |
| 35° | 988  | 620  |
| 45° | 203  | 177  |
| 55° | 48   | 43   |
| 65° | 16   | 16   |
| 75° | 5    | 6    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3755.9 |
| 2.5°  | 3729.2 |
| 5°    | 3649.1 |
| 7.5°  | 3504.8 |
| 10°   | 3328.5 |
| 12.5° | 3104.1 |
| 15°   | 2890.4 |
| 17.5° | 2666.0 |
| 20°   | 2441.6 |
| 22.5° | 2227.9 |
| 25°   | 2014.2 |
| 27.5° | 1816.5 |
| 30°   | 1586.8 |
| 32.5° | 1282.2 |
| 35°   | 988.4  |
| 37.5° | 721.3  |
| 40°   | 496.9  |
| 42.5° | 325.9  |
| 45°   | 203.0  |
| 47.5° | 122.9  |
| 50°   | 74.8   |
| 52.5° | 58.8   |
| 55°   | 48.1   |
| 57.5° | 37.4   |
| 60°   | 26.7   |
| 62.5° | 21.4   |
| 65°   | 16.0   |
| 67.5° | 10.7   |
| 70°   | 10.7   |
| 72.5° | 5.3    |
| 75°   | 5.3    |
| 77.5° | 5.3    |
| 80°   | 5.3    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)